WO 2005/043608 24

CLAIMS

PCT/JP2004/016284

1. A processing liquid coating apparatus for coating a surface of a substrate with a processing liquid, said apparatus comprising:

a substrate holder for holing and rotating the substrate; and

a processing liquid supply unit disposed apart from the substrate held by said substrate holder;

wherein said processing liquid supply unit has a plurality of supply ports for supplying the processing liquid to a plurality of portions including a central portion of the surface of the substrate, and the processing liquid is a resist liquid or a developer.

15

5

2. A processing liquid coating apparatus according to claim 1, wherein said processing liquid supply unit has a plurality of suction ports for sucking the processing liquid on the substrate.

20

3. A processing liquid coating apparatus according to claim 2, wherein said plurality of supply ports and said plurality of suction ports are arranged alternately and linearly.

25

- 4. A processing liquid coating apparatus according to claim 1, wherein said processing liquid supply unit is movable in a radial direction of the substrate.
- 5. A processing liquid coating apparatus according to any one of claims 1 to 4, further comprising a processing liquid suction unit for sucking the processing liquid from a peripheral portion of the substrate.

6. A processing liquid coating apparatus according to any one of claims 1 to 5, further comprising a gas supply unit for ejecting a gas toward the surface of the substrate, said gas supply unit being movable from the central portion

25

PCT/JP2004/016284

7. A processing liquid coating method for coating a surface of a substrate with a processing liquid, said method comprising:

rotating the substrate; and

to a peripheral portion of the substrate.

WO 2005/043608

supplying the processing liquid to a plurality of portions including a central portion of the surface of the substrate;

- wherein the processing liquid is a resist liquid or a developer.
- 8. Aprocessing liquid coating method according to claim 7, further comprising sucking the processing liquid from a plurality of portions of the surface of the substrate.
- 9. Aprocessing liquid coating method according to claim
 7, further comprising sucking the processing liquid from a plurality of portions including a peripheral portion of the surface of the substrate.
 - 10. A processing liquid coating method according to any one of claims 7 to 9, further comprising:

ejecting a gas from a gas supply unit toward the surface of the substrate; and

moving said gas supply unit from the central portion to a peripheral portion of the substrate.